INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP2004/013851

A CLASSI	FICATION OF SUBJECT MATTER		PCT/JP2	2004/013851
Int.C	1 ⁷ C01B31/02, C23C16/48, H01L H01L21/28	29/06, Н01L29/78	36, H01L21	/3205,
According to 1	International Patent Classification (IPC) or to both nat	tional classification and IPC		
B. FIELDS	SEARCHED			
Minimum doc	umentation searched (classification system followed b	v classification symbols)		
Int.C	1 ⁷ C01B31/02, C23C16/48, H01L H01L21/28	29/06, H01L29/78	6, H01L21,	/3205,
Documentation	n searched other than minimum documentation to the	extent that such documents o		~
Kokai	Jitsuyo Shinan Koho 1971-2004	Jitsuyo Shinan Tor	nan Koho oku Koho	1994-2004 1996-2004
Electronic data WEB OI	base consulted during the international search (name SCIENCE, JOIS [nanotube, tra	of data base and, where prac nsistor]	ticable, search ter	ms used)
C. DOCUME	NTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where	appropriate, of the relevant	passages	Relevant to claim No.
Х	JP 2003-238123 A (NEC Corp	.),		1-6,8,9,16,
Α	27 August, 2003 (27.08.03), Par. No. [0042] (Family: none)			17 7,10-15
X A	Yoshikazu HOMMA, et al., Grocarbon nanotube networks on silicon pillars, APPL.PHYS.12002 (16.09.02), Vol.81, No.2263	100-nm-scale		18,19,21,23 20
	cuments are listed in the continuation of Box C. gories of cited documents:	See patent family a		
A" document defining the general state of the art which is not considered date and not in conflict with the application but cited to understand				
" earlier application or patent but published on or after the international ""				ntion
L" document which may throw doubts on priority string(s)			DOOL he considered to involve an invention	
	blish the publication date of another citation or other n (as specified)	"Y" document of particular	relevance: the clair	ned invention cannot be
" document ref	erring to an oral disclosure, use, exhibition or other means	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document combined with one or more other such documents, such combina being obvious to a person skilled in the art document member of the same patent family		
te of the actual	completion of the international search			
13 Dece	mber, 2004 (13.12.04)	Date of mailing of the inte 28 December	mational search r , 2004 (28	report 3.12.04)
me and mailing Japanes	address of the ISA/ e Patent Office	Authorized officer		
esimile No. n PCT/ISA/210	(second sheet) (January 2004)	Telephone No.		
1010 410	(Josephu Sheet) (January 2004)			

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.
х	Seizo KINOSHITA et al., "Ichi Seigyo Seic Carbon Nanotube ni yoru Shitsuon Coulomb Blockade", The Institute of Electronics, Information and Communication Engineers Gijutsu Kenkyu Hokoku, 29 January, 2002 (29.01.02), Vol.101, No.618, pages 47 to 52	18,22	
A	J. FUJITA et al., Graphitization of Fe-do amorphous carbon pillaras grown by focuse ion-beam-induced chemical-vapor deposition J.Vac.Sci.Technol.B, 2002, November/Decem Vol.20, No.6, pages 2686 to 2689	n,	1-23
A	JP 2003-017508 A (NEC Corp.), 17 January, 2003 (17.01.03), Full text 4 EP 1411554 A1		22